

W

Nevada - Utah  
1965



August 27

Left Washington 6:15 and arrived Denver at 9:20. Tom met us; stayed at Homestead Motel. Lodging \$4.12.

Aug 28

Went through Estes park & out US 40 to Vernal Utah for the night. Breakfast 1.34, lunch .65 and supper 2.62, Lodging Vernal 5.35.

Aug. 29

Breakfast 1.40, Lunch 1.49, Supper \$3.00. Went to Dinosaur Nat. Monument, across Uintah Basin, Vernal to Manila, Manila to Green River & Green River to Logan. Met Luke and Norford at 8:30 in Logan. One roll taken in Dinosaur Park and on way between Vernal and Green River. One view of Bear Lake.



Aug 30,  
Swan Canyon  
Go to 19<sup>th</sup> North west from  
main road 89 on road along  
S side golf course

4 Swan Peak in Swan Canyon  
B- 1.20, lunch 1.50, S- 4.00, R- 13.46  
Clay Basin Rd. line between  
25 & 26, T9N, R1W. for high Swan  
Peak, last locality on Aug. 30.

In Swan Canyon saw section  
from UE through Swan Peak. I  
collected lower Garden City about  
300' stratig. above the E. fossils  
few. Lower Swan Peak has  
limy beds in which occur  
*Acrotretes* and *Syntrichopora*  
fossils rare above middle  
Swan Peak.

Afternoon went  $\frac{1}{2}$  mi. W  
of Sardine Summit for mid  
Swan Peak. *Graptolites*, *trachio*  
and *Trilobites* in shaly bed.

$\frac{1}{2}$  miles SE of Mantua on  
road to Clay Basin & Swan  
Peak locality, excellent for  
*Trilobites* - Check Mantua ☐



August 31

B-1.24, L=1.25

S=2.20 R=4.14

#2 for Williams

10 - Thrust Release (Nub  
Hornst of Eardley) Nide of  
Nephi.

Left Logan early in morning  
and went 5 to Provo. Here  
called on L. Hinkel and saw  
collections from Confusion Range.  
After conference with H we came  
SW to Delta for the night. Met  
Rousseau Flower here!

Sept. 1

- 11 - 5 of rd. Skull Crk Range
- 12 - Fallone Skull Rock Range
- 13 - Confusion Range - Ord  
with lava cap.
- 14 - Fault. 5 mi. Confusion R.  
Warm Point.

The Barn □, Utah

Sept. 1 = About 1 mi. SW of Skull  
Rock Pass at junction of road  
S. into Confusion Range.  
Notch Peak □.



Sept 1<sup>2</sup> - Long section 1/4 mile S  
of Fossil Mtn. NW 1/4 30-225-14W.  
The Barn Q. Section started in  
upper Wahwah. Collected *Hesperonomiella*  
bed, about 1' thick at top of Wahwah.  
Quab contained what appears to  
*Orthis subulatus* throughout  
and with *Anomalorthis* appearing  
at the top.

Kanosh is darker shale, begins  
with *Anomalorthis* which is  
common up to K-11. At the top of  
K-11 it is abundant. *O. Michaeli*  
common into K-11 but does not  
extend to the top of that interval.  
It is especially abundant in K-  
10 and the lower half to 3/4 of K-11.  
A smaller *Orthis subulatus* appears  
at base of K-12. *D. cantharus*  
appeared at top of Kanosh.

Sept. 1<sup>3</sup> - Wahwah complete section  
Alternating limestones with cobbly  
beds, contained *Hesperonomiella*, *Futrellia*  
and *Syntrophopsis*. Was collected  
some silicified slabs.

Fillmore formation and lower  
part of section well displayed  
on slopes of mesa.



Sept. 2

Left Ely in morning for Eureka, Nev. Stopped in Alhambra Hills. These are on west side of Newark Valley just N of the Landing Field and about  $1\frac{1}{2}$  miles N of Highway US 50. They are on the N side of an amphitheatre in NW  $\frac{1}{4}$  SE  $\frac{1}{4}$  SW  $\frac{1}{4}$  of 30-18 N-55 E. on the Pinto Summit  $\square$ , Nevada. The lower half of the section is black ls. followed by a light gray limestone which is overlain by dolomite with *Stringocephalus*. The sub-russellandia bed is 70 feet below *Stringocephalus*.

After collecting here went on to Eureka. Then went to Garden Pass Summit to see Vinini shale with graptolites.



Sept. 3.

All day on Lone Mtn.

In morning worked on Oreol which is on west side Mtn under a bluff of Eureka quartzite. The section is not very fossiliferous. Lower beds contain *Gervanella*. The *Gervanella* spans a considerable interval and also contains *Palliseria* and *Receptaculites*. *Anomalorthis* comes in below *Desmorthis* (200'?). The *Desmorthis* bed is 1-1 1/2' thick and occurs about 200' ? below The Eureka. Exposures are very poor above *Desmorthis* but I did not see *Anomalorthis* above it.

Beds above *Desmorthis* and *Desmorthis* bed are packed with *Ostracodes*. Above *Desmorthis* they are very large. *Bathynotus* *trilobites* were also seen.



Sept 3'

Went to see Devonian, up from saddle at X, lowest beds above saddle contain corals. Collected for about 100' above saddle where *Chonetes macrostriatus* was common. Above this *Sp. pinonensis* come in and we collected through the light and colored platy limestones with red and yellow flints. In the upper part of this unit *Schizophoria* and *Gypsidula* are common.

Above the *Schizophoria* beds the rock changes to a drab dark gray with scarcely any fossils. Above this interval occur several beds of dolomite, one of which had *Warrenella*. We collected only from the lower platy ls. but not from the Crissey equivalent. Probably mostly *pinonensis* zone



Sept. 4

Morning went to N end  
Martin Ridge. Sept 4 - Two  
small knobs a mile S of  
N end of Martin Ridge  
contain a long section of  
Antelope Valley fm. Top of  
first knob produced 2 tracks.  
Top of 2nd knob produced  
Anomalorthis. On back slope  
of second knob and from 0-  
10' below the first quartzite  
Rube found a peculiar fauna  
which seems to have  
Valcamera, plectambonitids and  
what looked like Darmouthia.

To the SW of this hill and  
about 0.4 mile SSE of 7427 came  
slopes with Copenhagen fm.  
Lower yellow part I would  
guess about 100' thick with  
lower quartzite and other fossils.  
Upper slopes of a gully  
contained the Oxoplectid  
fauna. Lower part was  
Leptellina, followed by large  
ls. with clastoloids. This was  
followed by Oxoplectid -  
Plectambonites - Leptostrophia -  
Christiania. Near top came  
Rensselaeria but whole section not there.



Started new roll of film with  
2 pictures of abandoned buildings  
of Armiti Ranch. Pictures  
of prior roll closed with views  
of north end of Martins  
Ridge

Set Bull 1187C by Ross + Longwell  
Ord. Tms. Nevada & California.

Room at Eureka \$30.00 - Meals  
Breakfast about 1.43, dinners 1.58

Sept. 5

Marched up Nine-Mile Canyon  
and a side Canyon to see the  
Nine-Mile Canyon fm. Took all  
day.

Sept. 6

Spent morning on upper  
Copenhagen N of Sequia Ranch.  
Isophragma seen in Lower  
Copenhagen. Renschella from  
high (50'?) in Up. Copenhagen  
below Eureka quartzite. Rained  
out. Came in, packed sacks  
for shipment.



Sept. 7

Left Greeba, went across  
Monitor Range, past Potts  
to Mill Canyon (Wildcat Peak  
□). Here we saw thrust plates  
with Pogonip, Copenhagen,  
Copenhagen, yellow platy ls  
of Pogonip type with Bismuthia  
upper Pogonip with Cryptolithoides,  
Amplexina and Robergia.  
After collecting came in to  
Austin for the night

Sept. 8

Spent all day in Ihas Canyon.  
Saw entire section. O. minuscula  
under sponge beds has a  
Joaquima-like shell. Between  
Rhyssostrophia & Leptellina  
occurs plectambonitids. Leptellina  
zone has Pleuronthis. Went  
to Tonopah for night.



Sept 9

Left Tonopah for Betty, Mr. Betty to Meikeldom Park on Bare Mtn. D. Here saw section from Devonian: Gordon zone, 9-mile Canyon, Ostrichella zone, Palliseria zone, possible sponge-bed equivalent, and at top Leptellina - small Valcamus. This is overlain by yellowish beds with few fossils but we saw Sowerbyites, Multicostella, and several others.

Between Palliseria and Copahagen occurs Ateleasma. This also seen in the overlying lower (yellow) Copahagen.



Sept. 10

16-17 Jacki Mtn. & region  
Spent up to 2:00 PM in Death  
Valley then went to Mercury to  
check in.

Sept 11

Ridge E of Frenchman Flat

Lower 75' Orthisella zone  
with sparsely scattered specimens.  
Ingrina present but rare. Great  
abundance of brachiopods in  
upper 50' - 75'. Ectenostoma  
occurs in all parts of Orthisella  
zone.

Above Orthisella dark granular  
rocks abound in Palliseria.  
Anomalorthis is common with  
and above Palliseria. Very top  
beds of Antelope Valley have  
Lichasaria and Eofletcheria.  
Rube also has identified  
Macroscelia here.

In the Eureka quartzite  
a few brachiopods were seen  
which seem to be Valcouria  
and possibly Multicostella.



Goodwin

Sept. 12

1. 200' below 8-Mile
2. Between 1 & 3
3. Just below 8-Mile member

Visited Palute Ridge on Popoia Lake  $\square$  north of Mercury. Full section of Goodwin. First collected 200' below 8-Mile member in the lower Goodwin. Xenostegium beds. Next collection a short distance higher. Third collection from just below base of 8-Mile in the Kamella zone.

Afternoon went to striped hills about 30 miles W of Mercury and collected 8-Mile Canyon Formation, here upside-down by overturning. Rock cleaved and indurated. Collecting not good.